

For industrial companies member from the Syndicat National des Alvéolaires et Polyuréthannes (SNAP)

Voluntary Safety Data Sheet (SDS) of EFISOL polyurethane rigid foam panels

*Those products are neither « substances » nor « mixtures » according to REACH, but « articles ».
It is not, therefore, subject to the mandatory edition of a SDS and is not classified as hazardous. Nevertheless,
in order to answer our customer's need and to promote risk prevention, each SNAP member establishes its SDS
on this model and in accordance with REACH.*

*** SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

1.1 Product identifier :

EFISOL PUR or PIR polyurethane rigide foam panel in accordance with standard NF EN 13165.

1.2 Relevant identified uses of the substance or mixture and uses advised against :

Rigid foam panel to be used as insulating product in Building.

1.3 Details of the supplier of the safety data sheet :

Name : SOPREMA S.A.S.
Adress : 14 rue de Saint Nazaire – CS-60121 – F-67025 STRASBOURG CEDEX
Telephone number : +33 (0)3 86 63 29 18
Fax number : +33 (0)3 86 63 24 89
E-mail : ygaillard@soprema.fr

1.4 Emergency telephone number :

Numéro ORFILA : +33 (0)1 45 42 59 59 (France - anti-poisons centres list)

SECTION 2 : HAZARD IDENTIFICATION

2.1 Classification of the substance or mixture :

As an « Article » according to REACH, PUR or PIR foam panel is not classified as a dangerous product according to regulation in force.

2.2 Label elements :

PUR or PIR foam panel is not concerned by labelling according to directives and regulations on substances and mixtures.

2.3 Other hazards :

- In standard use, no adverse effect on health and on environment.
- In case of combustion of the product, heat emission with fumes which must not be inhaled.
- After a case of fire, no effect was observed concerning potential pollution because of extinguishing waters going into sewers.

SECTION 3 : COMPOSITION/INFORMATIONS ON INGREDIENTS

Article :

Synthetic alveolar material with facings : polymer obtained by diisocyanate reacting on a polyol with blowing agent.

Nota : diisocyanate is a raw material reacting while foaming and is not contained anymore into a free form in the end product.

Article 33 of REACH : according to our knowledge, no substance of very high concern under REACH, from the candidate list (to Authorisation) and from Annex XIV (subject to Authorisation) of REACH, is contained in the product in a concentration above 0,1% weight by weight.

SECTION 4 : FIRST AID MEASURES

4.1 Description of first aid measures :

- **Inhalation :** In case of cuttings or machinings of product generating dust :
 - Remove victim to fresh air in case of respiratory difficulties,
 - Seek for medical advice if symptoms remain.
- **Contact with skin :** No specific measure, nevertheless,
In case of cut wound (due to facings or cutting tools) :
 - Wash and disinfect the wound,
 - If necessary, apply a compression dressing and seek for medical advice.
- **Contact with eyes :** In case of cuttings or machinings of product generating dust :
 - Wash with large amount of water in case of discomfort.
 - Seek for medical advice if symptoms remain.
- **Ingestion :** In case of cuttings or machinings of product generating dust :
 - Do not swallow dust, wash mouth several times, do not induce vomiting.
 - Seek for medical advice if symptoms remain.

4.2 Most important symptoms and effects, both acute and delayed :

No undesirable effect known to date, except common effects from heavy exposure to dust, which however may not happens in intended conditions of use.

4.3 Indication of any immediate medical attention and special treatment needed :

No specific treatment needed in intended conditions of use.

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media :

Appropriate extinguishing media : ABC power – sprayed water.

Inadequate extinguishing media: Solid jet water (risk of scattering burning product).

5.2 Special hazards arising from the substance or mixture :

In case of fire, decomposition products can be generated : soot, carbon dioxide (CO₂), carbon monoxide (CO), and under some combustion conditions traces of hydrocyanic acid (HCN) (however HCN being combustible, it is often destroyed as soon as it is generated).

5.3 Advice for firefighters :

Self-contained breathing apparatus recommended as for most of fires.

SECTION 6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures :**

None in intended conditions of use, non hazardous solid product.

6.2 Environmental precautions :

None in intended conditions of use, non hazardous solid product.

6.3 Methods and material for containment and cleaning up :

Manual tidying the panels.

6.4 Reference to other sections :

Irrelevant.

SECTION 7. HANDLING AND STORAGE**7.1 Precautions for safe handling :**

Wearing gloves is recommended for products with facings especially made of aluminium (risk of cut wound).

Smoking ban, avoid direct contact with flame (except for products which application plans a flame welding). In case of handling nearby heavy heat sources (for example : burner), ensure to dispose of an appropriate extinguishing media – see section 5, in order to prevent the product from any risk of ignition.

In case of heavy cuttings or machinings (without air extraction on the tools) of product generating dust, in order to minimise inhalation exposure and to avoid generation of an explosive atmosphere, work into well-ventilated places.

However, cuttings required for usual installation of the product at the construction site may not generate significant risk linked to dust.

Concerning handling into warehouse, fork-lift drivers must be professionally trained (driving fork-lift trucks, carrying /stacking pallets...).

While charging and discharging of the end product, packaging of the pallet must be checked (damage and stability) before stacking (see §7.2 Storage).

7.2 Conditions for safe storage, including any incompatibilities :

- Fire and explosion prevention : Smoking ban, avoid direct contact with flame and store away from heavy heat sources (for example : burner), in order to prevent the product from any risk of ignition.

- Incompatible materials : Do not store with flammable classified substances or mixtures.

- Conditions for storage : Keep away from weather, store on a flat area. Do not stack damaged packages/pallets. We recommend against stacking packages/pallets above 3 m high and we recommend to avoid pedestrian circulation in the storage area (risk of falling piles, especially in case of winds above 40 km/h).

- Packaging material : plastic film, wood pallet, expanded polystyrene or polyurethane blocks.

7.3 Specific end use(s) :

No specific additional requirements.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters :

Binding regulatory limit values (article R.4222-10 of Labour Code) in France concerning dust without specific effect on an 8h duration :

Maximum average concentration of total inhalable dust : 10 mg /m³ of air.

Maximum average concentration of alveolar inhalable dust : 5 mg /m³ of air.

8.2 Exposure controls :

- Collective protection : in case of cutting or machining of product generating dust, work into well-ventilated place in order to reduce to the lowest possible dust concentration. If required by specific conditions, plan process is equipped with exhaust extraction.

- Eye protection : wearing safety goggles is recommended in case of generation of dust.

- Hand protection : wearing gloves is recommended – see section 7.

- Respiratory protection : wear class 1 or 2 filtering mask (against dust) in case of dust generation and ventilation not suitable.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties :

- | | |
|-------------------------------|--|
| - Appearance : | Solid. |
| - Colour : | Yellow, beige or cream (other possibilities if tinting) with different colours of facings. |
| - Odour : | Sans. |
| - Auto-ignition temperature : | PUR > 300 °C
PIR > 500 °C |
| - Explosive properties : | Not applicable.
(except for airborne dust – see Section 7 : minimum energy for ignition from electric spark above 1000 mJ – INERIS report dec. 2004). |
| - Density : | 25 to 40 kg/m ³ (at 20°C and according to thickness). |

9.2 Other information :

Irrelevant.

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity :

No specific reactivity in intended conditions of use.

10.2 Chemical stability :

Product is stable in intended conditions of use.

10.3 Possibility of hazardous reactions :

None in intended conditions of use.

10.4 Conditions to avoid :

Avoid proximity with heat sources – see section 7.

10.5 Incompatible materials :

None when complying with technical documents and approvals of the specific product.

10.6 Hazardous decomposition products :

None in hazardous quantities (below authorised limits). In case of fire, see section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects :

No risk known of toxicological effect in intended conditions of use.

Considering dust generation : usual risks of respiratory tract discomfort and eye irritation.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity :

No risk known of toxicological effect on the environment in intended conditions of use.

12.2 Persistence and degradability :

Not biodegradable product. Into water, product floats, being insoluble with bulk density lower than water, it is not damaged by contact with water.

12.3 Bioaccumulative potential :

Not concerned.

12.4 Mobility in soil :

Irrelevant.

12.5 Results of PBT and vPvB assesment :

Not concerned.

12.6 Other adverse effects :

Blowing agents used are in compliance with regulation in force on the ozone layer.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods :

Off-cuts of PUR or PIR foam panels are non hazardous waste.

It can be treated by energy recovery into an authorised facility or by disposal into a non hazardous disposal facility (ISDND – ex-class II).

Lower Calorific Value (LCV) of PUR or PIR foam panel with facings : 20 to 30 MJ/kg of raw matter.

European waste catalogue code : 17 06 04 (insulation materials other than those mentioned in 17 06 01 and 17 06 03).

Wood and plastic packaging can be recovered into authorised sorting-recovering facilities, energy recovered into an authorised facility or disposed into a non hazardous disposal facility (ISDND – ex-class II).

In any case, refer to local regulation about waste disposal.

SECTION 14. TRANSPORT INFORMATION

14.1 UN number : Not concerned.

14.2 UN proper shipping name : Not concerned.

14.3 Transport hazard class(es) : Not concerned.

14.4 Packing group : Not concerned.

14.5 Environmental hazards : Not concerned.

14.6 Special precautions for users : Not concerned.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not concerned.

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific of the substance or mixture :

French regulation : Storage may eventually be subjected to regulation on facilities classified about environmental protection (ICPE, section 2663).

REACH Regulation N° 1907/2006

PUR or PIR foam panels are « articles » according to REACH – See section 3 about substances of very high concern.

15.2 Chemical safety assesment :

« Articles » are not subjected to this assesment nor to provide exposure scenario according to REACH.

SECTION 16. OTHER INFORMATION

* **Up-date** : Modified sections are identified with an asterisk (*).

Model reference of SDS : SNAP 111572 – Customised according to manufacturer.

This Data Sheet complete technical instructions but do not replace it.

Informations are based on our present knowledge.

It is provided in good faith and besides only concern products designated and may not be applicable in case of mixing that product with other substances, in case of resorting to unusual techniques out of the standard practice or when applied into a production process.

Users should be aware of possible risks when using a product whereas it is not intended for.

It does not exempt users from knowing and applying regulation about their activities.

Users take their own responsibilities about precautions for the use of the product
